Contents of Volume 8

January

J. P. BARUSSEAU, P. GIRESSE, H. FAURE, A. M. LEZINE and J. P. MASSE — 1 Marine sedimentary environments on some parts of the tropical and equatorial Atlantic margins of Africa during the Late Quaternary

F. B. HALPER and D. W. MCGRAIL — 23 Long-term measurements of near-bottom currents and suspended sediment concentration on the outer Texas – Louisiana continental shelf

S. ALVAREZ-BORREGO and G. GAXIOLA-CASTRO — 37 Photosynthetic parameters of northern Gulf of California phytoplankton

R. B. HANSON and C. Y. ROBERTSON — 49 Spring recycling rates of ammonium in turbid continental shelf waters off the southeastern United States

B. L. NORCROSS and H. M. AUSTIN — 69 Middle Atlantic Bight meridional wind component effect on bottom water temperatures and spawning distribution of Atlantic croaker

K. KREMLING and D. HYDES — 89 Summer distribution of dissolved Al, Cd, Co, Cu, Mn and Ni in surface waters around the British Isles

Note

A. J. WILLMOTT — 107 Comments on "Wind-forced continental shelf waves from a geographical origin"

Journal Review

S. J. WAKEFIELD — 111 *Applied Geochemistry:* Journal of the International Association of Geochemistry and Cosmochemistry

List of Contents for *Deep-Sea Research*, Vol. 34, Nos 10, 11 and 12 — i

February

H. MITSUDERA and K. HANAWA — 113 Damping of coastal trapped waves due to bottom friction in a baroclinic ocean

T. J. SHERWIN — 131 Measurements of current speed using an Aanderaa RCM4 current meter in the presence of surface waves

V. PURNACHANDRA RAO, N. PURNACHANDER REDDY and CH. MADHUSUDANA RAO — 145 Clay mineral distribution in the shelf sediments off the northern part of the east coast of India

D. A. GRIFFIN — 153 Mooring design to minimize Savonius rotor overspeeding due to wave action

S. G. MARINONE and P. RIPA — 159 Geostrophic flow in the Guaymas Basin, central Gulf of California

M. J. DAGG — 167 Physical and biological responses to the passage of a winter storm in the coastal and inner shelf waters of the northern Gulf of Mexico

J. W. CAMPBELL and J. E. O'REILLY — 179 Role of satellites in estimating primary productivity on the northwest Atlantic continental shelf

Instruments and Methods
A. W. HERMAN — 205 Simultaneous measurement of zooplankton and light attenuance with a new optical plankton counter

Announcement — 223 International Conference on Computer Modelling in Ocean Engineering — Problems and Solutions in Coastal and Offshore Systems

March

S. P. R. CZITROM, G. BUDÉUS and G. KRAUSE — 225 A tidal mixing front in an area influenced by land runoff

R. SÆTRE, J. AURE and R. LJØEN — 239 Wind effects on the lateral extension of the Norwegian Coastal Water

H. J. LEE, K. S. JEONG, S. J. HAN and K. S. BAHK — 255 Heavy minerals indicative of Holocene transgression in the southeastern Yellow Sea

D. P. WESTON — 267 Macrobenthos–sediment relationships on the continental shelf off Cape Hatteras, North Carolina

C. E. VINCENT and A. CARRIE — 287 Evaluation of an energy-propagation wave refraction model

Note
A. W. WOODS and R. C. BEARDSLEY — 307 On the barotropic discharge of a homogeneous fluid onto a continental shelf

List of Contents for *Deep-Sea Research*, Vol. 35, Nos 1 and 2 — i

April

S. MCCLATCHIE — 329 Food-limited growth of *Euphausia superba* in Admiralty Bay, South Shetland Islands, Antarctica

J. R. POTTER, M. H. TALBOT and J. G. PAREN — 347 Oceanic regimes at the ice fronts of George VI Sound, Antarctic Peninsula

J. E. MACKIN, R. C. ALLER and W. J. ULLMAN — 363 The effects of iron reduction and nonsteady-state diagenesis on iodine, ammonium, and boron distributions in sediments from the Amazon continental shelf

K. HARADA and S. TSUNOGAI — 387 Is lead soluble at the surface of sediments in biologically productive seas?

K. H. BRINK — 397 On the effect of bottom friction on internal waves

R. C. UPSTILL-GODDARD and H. ELDERFIELD — 405 The role of diagenesis in the estuarine budgets of iodine and bromine

Errata — 431

List of Contents for *Deep-Sea Research*, Vol. 35, No. 3 — i

May/June/July

SHELF EDGE EXCHANGE PROCESSES OF THE MID-ATLANTIC BIGHT

Preface — 433

Introduction

J. J. WALSH, P. E. BISCAYE and G. T. CSANADY — 435 The 1983–1984 Shelf Edge Exchange Processes (SEEP)—I experiment: hypotheses and highlights

Food web dynamics

P. G. FALKOWSKI, C. N. FLAGG, G. T. ROWE, S. L. SMITH, T. E. WHITLEDGE and C. D. WIRICK — 457 The fate of a spring phytoplankton bloom: export or oxidation?

S. L. SMITH and P. V. Z. LANE — 485 Grazing of the spring diatom bloom in the New York Bight by the calanoid copepods *Calanus finmarchicus, Metridia lucens* and *Centropages typicus*

G. T. ROWE, R. THEROUX, W. PHOEL, H. QUINBY, R. WILKE, D. KOSCHORECK, T. E. WHITLEDGE, P. G. FALKOWSKI and C. FRAY — 511 Benthic carbon budgets for the continental shelf south of New England

J. J. WALSH, C. D. WIRICK, L. J. PIETRAFESA, T. E. WHITLEDGE, F. E. HOGE and R. N. SWIFT — 529 High-frequency sampling of the 1984 spring bloom within the Mid-Atlantic Bight: synoptic shipboard, aircraft, and *in situ* perspectives of the SEEP—I experiment

Circulation

G. T. CSANADY and P. HAMILTON — 565 Circulation of slopewater

F. AIKMAN III, H. W. OU and R. W. HOUGHTON — 625 Current variability across the New England continental shelf-break and slope

G. T. CSANADY, J. H. CHURCHILL and B. BUTMAN — 653 Near-bottom currents over the continental slope in the Mid-Atlantic Bight

G. T. CSANADY — 673 Radiation of topographic waves from Gulf Stream meanders

Frontal exchange

R. W. HOUGHTON, F. AIKMAN III and H. W. OU — 687 Shelf–slope frontal structure and cross-shelf exchange at the New England shelf-break

H. W. OU, F. AIKMAN III and R. W. HOUGHTON — 711 Complex empirical orthogonal function analysis of thermistor chain data near a shelf–slope front

H. W. OU and L. R. M. MAAS — 729 Tides near a shelf–slope front

C. N. FLAGG — 737 Internal waves and mixing along the New England shelf–slope front

Particle transport

J. J. WALSH, D. A. DIETERLE and M. B. MEYERS — 757 A simulation analysis of the fate of phytoplankton within the Mid-Atlantic Bight

J. H. CHURCHILL, P. E. BISCAYE and F. AIKMAN III — 789 The character and motion of suspended particulate matter over the shelf edge and upper slope off Cape Cod

B. BUTMAN — 811 Downslope Eulerian mean flow associated with high-frequency current fluctuations observed on the outer continental shelf and upper slope along the northeastern United States continental margin: implications for sediment transport

Sedimentation

M. P. BACON, R. A. BELASTOCK, M. TECOTZKY, K. K. TUREKIAN and D. W. SPENCER — 841 Lead-210 and polonium-210 in ocean water profiles of the continental shelf and slope south of New England

P. E. BISCAYE, R. F. ANDERSON and B. L. DECK — 855 Fluxes of particles and constituents to the eastern United States continental slope and rise: SEEP—I

M. I. VENKATESAN, S. STEINBERG and I. R. KAPLAN — 905 Organic geochemical characterization of sediments from the continental shelf south of New England as an indicator of shelf edge exchange

R. F. ANDERSON, R. F. BOPP, K. O. BUESSELER and P. E. BISCAYE — 925 Mixing of particles and organic constituents in sediments from the continental shelf and slope off Cape Cod: SEEP—I results

August

C. MEDEIROS and B. KJERFVE — 947 Tidal characteristics of the Strait of Magellan

M. CANALS, E. CATAFAU and J. SERRA — 961 Sedimentary structure and seismic facies of the inner continental shelf north of the Ebro Delta (northwestern Mediterranean Sea)

P. T. HARRIS — 979 Sediments, bedforms and bedload transport pathways on the continental shelf adjacent to Torres Strait, Australia – Papua New Guinea

G. GODIN — 1005 The resonant period of the Bay of Fundy

Instruments and Methods

R. F. JOHNSON — 1011 A box corer 30 cm square and 4 m long

List of Contents for *Deep-Sea Research*, Vol. 35, Nos 4 and 5 — i

September

G. FERENTINOS and N. KASTANOS — 1025 Water circulation patterns in the Otranto Straits, eastern Mediterranean

P. MARTOS and M. C. PICCOLO — 1043 Hydrography of the Argentine continental shelf between 38° and 42°S

J. C. ANDREWS and L. BODE — 1057 The tides of the central Great Barrier Reef

M. AMIN — 1087 Spatial variations of mean sea level of the North Sea off the east coast of Britain

October

P. F. LINDEN and J. E. SIMPSON — 1107 Modulated mixing and frontogenesis in shallow seas and estuaries

C. L. AMOS, A. J. BOWEN, D. A. HUNTLEY and C. F. M. LEWIS — 1129 Ripple generation under the combined influences of waves and currents on the Canadian continental shelf

B. H. JONES, L. P. ATKINSON, D. BLASCO, K. H. BRINK and S. L. SMITH — 1155 The asymmetric distribution of chlorophyll associated with a coastal upwelling center

D. VAULOT and N. XIUREN — 1171 Abundance and cellular characteristics of marine *Synechococcus* spp. in the dilution zone of the Changjiang (Yangtze River, China)

List of Contents for *Deep-Sea Research*, Vol. 35, Nos 6, 7 and 8 — i

November

N. S. HEAPS, J. M. HUTHNANCE, J. E. JONES and J. WOLF — 1187 Modelling of storm-driven shelf waves north of Scotland—I. Idealized models

N. W. LANFREDI, E. E. D'ONOFRIO and C. A. MAZIO — 1211 Variations of the mean sea level in the southwest Atlantic Ocean

P. D. CRAIG — 1221 Space and time scales in shelf circulation modelling

H. TAKEOKA and T. HASHIMOTO — 1247 Average residence time of matter in coastal waters in a transport system including biochemical processes

M. R. JURY — 1257 Case studies of the response and spatial distribution of wind-driven upwelling off the coast of Africa: 29–34° south

Book Review
C. B. PATTIARATCHI — 1273 *Tides, surges and mean sea-level: a handbook for engineers and scientists*, by D. T. PUGH

December

I. D. JAMES — 1275 Experiments with a numerical model of coastal currents and tidal mixing fronts

T. E. WHITLEDGE, R. R. BIDIGARE, S. I. ZEEMAN, R. N. SAMBROTTO, P. F. ROSCIGNO, P. R. JENSEN, J. M. BROOKS, C. TREES and D. M. VEIDT — 1299 Biological measurements and related chemical features in Soviet and United States regions of the Bering Sea

R. B. HANSON, L. R. POMEROY, J. O. BLANTON, B. A. BIDDANDA, S. WAINWRIGHT, S. S. BISHOP, J. A. YODER and L. P. ATKINSON — 1321 Climatological and hydrographic influences on nearshore food webs off the southeastern United States: bacterioplankton dynamics

L. G. ANDERSON, E. P. JONES, R. LINDEGREN, B. RUDELS and P.-I. SEHLSTEDT — 1345 Nutrient regeneration in cold, high salinity bottom water of the Arctic shelves

List of Contents for *Deep-Sea Research*, Vol. 35, Nos 9, 10/11 and 12 — i

Index for Volume 8